

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: 09250871 A

(43) Date of publication of application: 22.09.1997

(51) Int. Cl. F25D 29/00

(21) Application number: 08062367

(22) Date of filing: 19.03.1996

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(54) FIXING STRUCTURE FOR THERMO-SENSITIVE TUBE OF THERMOSTAT

(57) Abstract:

PROBLEM TO BE SOLVED: To provide a structure in which an operating rate of a compressor is decreased and a consumption of electrical power is reduced by a method wherein a thermo-conductive and thermo-sensitive cylinder shows a superior thermo-conductive effect, and a heat transfer is carried out positively from a cooling pipe and an inner box.

SOLUTION: A thermo-conductive and thermo-sensitive cylinder 7 is stored in a recessed groove 21 of a tube fixing plate 20 opened toward an outer surface 5 of an inner box 3 and at the same time a non-thermo-conductive plate 22 is arranged between

the tube fixing plate 20 and the inner box 3, contacted with a cooling pipe 6 to make a positive heat transfer from the cooling pipe 6 and the inner box 3, resulting in that an effect of heat transfer from the inner box 3 is increased. In addition, since the thermo-conductive and thermo-sensitive cylinder 7 is positively fixed by the tube fixing plate 20, it is scarcely removed from the inner box 3, an operating efficiency of a compressor is more stabled than that of the prior art and further an operating efficiency of the compressor is improved.

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